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Monday, September 13, 2010 9:58:19 AM



Page 1

Item ID:

D205-634-041

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Replacement Skidtube

**Start Date:** 

9/13/2010

Start Qty: 1.00

Required Date: 9/28/2010

Req'd Qty: 1.00



**Cust Item ID: Customer:** 

Reference:

**Approvals:** 

Date: 10-9-13

Date:

Tooling:

SPC (Y/N):

Date: Date:

Start Run

Stop



Sequence ID/ Work Center ID Operation

**Revision Nbr** 

Description

Set Up/ **Run Hours**  Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

Draw Nbr D2580

Rev D

100

DOCUMENT CONTROL

Memo

0.00

0.00

Document Control

Photocopy D205-634 bluefile & type labels per PPP D205-634-041 CHG002

110

CNC Bend 1

CNC Delta 100 Bender

0.00

**BENDING MACHINE - SKIDTUBES** 

Memo

0.00

1-Bend as per program D2580.C on CNC Bender and Folio 16

2-Cut tubes as per Dwg. D2580

3- scribe batch# in aft end of tube

Dart Ae	rospace L	td							<b>~</b>	
W/O:			WC	RK ORDER CHANGE	S					• .
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NCR:			WORK ORDE	R NON-CONFORMAN	NCE	(NCR	)			
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Monday, September 13, 2010 9:58:19 AM



Page 2

Item ID:

D205-634-041

Accept

Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

**Start Date:** 

9/13/2010

Start Qty: 1.00

Required Date: 9/28/2010

Req'd Qty: 1.00



**Cust Item ID: Customer:** 

Tool ID

Reference:

Approvals:

Process Plan: \_\_\_\_\_ Date: \_\_\_\_

QC:\_\_\_\_

Operation

Description

0.00

0.00

**Tooling:** SPC (Y/N):

Set Up/

**Run Hours** 

Date: Date:

Tool # Plan

Code

Run Start

Reject

Qty

Insp.

Stamp

Stop

Reject

Number

Sequence ID/ Work Center ID

120

Skidtubes

Skidtubes

Memo

Memo

Date: \_\_\_\_\_

1- Deburr ends

2- C'sink holes as per dwg without cutting fluid

3- Prepare tube for welding, remove alodine as required.

130

QC

QC5- Inspect part completeness to step on W/O

0.00

0.00

Accept

Qty

Quality Control

	D	art	Ae	ros	pace	Ltd
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W/O:			W	ORK ORDER CHAN	GES			·		*
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NCR:			WORK OR	DER NON-CONFORM	JANCE (	NCR)	)			
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Page 3

Item ID:

D205-634-041

Monday, September 13, 2010 9:58:19 AM

Accept



Setup Start

Ston



Revision ID:

Item Name: Replacement Skidtube

**Required Date: 9/28/2010** 

**Start Date:** 

9/13/2010

Start Otv: 1.00

Reg'd Otv: 1.00



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

A	nn	ro	vя	s:	

Process Plan: Date:

OC:

**Operation** 

Description

Date: \_\_\_\_\_

Tooling:

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Date:

Run Start

Reject

Oty

Accept

**Qty** 

Stop

Reject

Number

Insp.

Stamp

Sequence ID/ Work Center ID

140

Skidtubes Skidtubes

Memo

0.00

0.00

1-Weld step D2576 as per Dwg. D2580 and QSI 004

A/R□□□ Aluminum Rod

Tool # Plan

Code

2-Prep per OSI 005 and weld crossbolt spacers D2579 as per Dwg, D2580, OSI

For D2579 spacers, weld one side, pass 3/8" drill, weld other side, pass 3/8" drill

A/R□□□ Aluminum Rod

3-Grind welds as per Dwg D2580 Grind flush ridge made from bending

4-Drill holes for wearplates using DT 8217 & DT8937 Open holes to 19/64". adjust stopper not to hit web.Deburr

5-Counterbore crossbolt spacers to 7/16" ID x 1.0" deep as per Dwg D2580. Deburr holes

6-Drill pilot holes for aft cap using DT 8215Open holes to 0.208". Deburr

7-Drill pilot holes for Tow ring using DT8091, open to .640" and Deburr

W/O:			W	ORK ORDER CHANGI	ES			,
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#### Work Order ID 61955

Monday, September 13, 2010 9:58:19 AM



Page 4

Item ID:

D205-634-041

Accept



Setup Start

Stop

Stop



**Revision ID:** 

Item Name:

Replacement Skidtube

**Start Date:** 9/13/2010 Required Date: 9/28/2010

Start Oty: 1.00

Reg'd Qty: 1.00



**Cust Item ID:** Customer:

Approvals:

Reference:

Process Plan:

Date:

Date: \_\_\_\_\_

Tooling:

SPC (Y/N):

Date:

Tool ID

Date:

Run Start



Sequence ID/

Work Center ID

150

**Ouality Control** 

**Operation** Description

OC10- Inspect visual per QSI004- ground welds

Set Up/ **Run Hours** 

Code

Tool # Plan

Accept **Qty** 

Reject **Qty** 

Reject Insp. Number Stamp

0 10/69/23 Memo

160

OC

Quality Control

QC5- Inspect part completeness to step on W/O

810108/23

170

Pressure Wash per OSI005 4.3

Memo

0.00 BR 10 9- 27.

HandFinish

Memo

0.00

Hand Finishing

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch and leave fwd cap out of solution.

W/O:			W	ORK ORDER CHANG	ES			•
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#### · Work Order ID 61955

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Page 5

Item ID:

D205-634-041

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Replacement Skidtube

Start Date:

9/13/2010

Start Qty: 1.00

**Required Date: 9/28/2010** 

Req'd Qty: 1.00



**Cust Item ID: Customer:** 

Reference:

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QC:

Process Plan: Date:

Operation

Description

Date:\_\_\_\_\_

**Tooling:** 

SPC (Y/N):

Date:

Tool ID

Date:

Run

Stop

Start



Sequence ID/

Work Center ID

180

Powdercoat

**Powder Coating** 

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alur

Memo START TIME:

OVEN TEMPERATURE:

FINISH TIME:

Set Up/

Run Hours 0.00

10-9-28

Tool # Plan

Code

Accept Qty Qty

Reject Reject Number

Insp. Stamp

0.00

190

QC

QC3- Inspect Part Finish

0.00 => 11 10/09/28

Memo

0.00

Quality Control

W/O:			W	ORK ORDER CHANG	ES				,
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**Required Date: 9/28/2010** 

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Page 6

Item ID:

D205-634-041

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Replacement Skidtube

Start Date:

9/13/2010

Start Otv: 1.00

Memo

Reg'd Oty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan: Date:

Date: \_\_\_\_\_

Tooling:

SPC (Y/N):

0.00

Date:

Date:

Run

Start



Stop

Sequence ID/ Work Center ID

200

HandFinish

Hand Finishing

Operation **Description** 

Set Un/ Run Hours

Tool # Plan Code

Accept Oty

Reiect Oty

Reject Insp.

Number Stamp

1-Install inserts & wearplates & Gaskets as per Dwg, D2580. Use a drop of Sikaflex on insert holes before installing wearplates

 $\triangle$ A/R  $\square$   $\square$   $\square$  Sikaflex-291  $\square$   $\triangle$   $\square$   $\square$ Sikaflex expire date: (\\(\)

2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as per Dwg D2580

3-Inspect for foreign object per OSI 024

4-Install 2855 Aft Cap as per Dwg D2580 and seal Fwd Step & Aft Cap with

Sikaflex. Clean excess adhesive A/R 🗆 🗆 Sikaflex-291 🗆 🔨 🗎 🖼

Sikaflex expire date: (1 0 1

5-Wing Walk as per Dwg D2580 and QSI 005 4.4

Batch: 11502 5

=> M 10/09/28 1

W/O:			W	ORK ORDER CHANGE	S				
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#### · Work Order ID 61955

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Item ID:

D205-634-041

Accept



Setup Start



Revision ID:

Start Date:

Replacement Skidtube Item Name:

9/13/2010

Start Otv: 1.00

Required Date: 9/28/2010

Reg'd Oty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan: Date:

OC:

Date:

Tooling:

SPC (Y/N):

Date: Date:

Run

Stop

Start

Stop

Sequence ID/ Work Center ID

210

OC

Quality Control

Operation Description

OC5- Inspect part completeness to step on W/O

Set Un/ Run Hours

S 10108/79

Tool # Plan Accept Code Oty

Reject Oty

Reject Number

Insp. Stamp

Memo Inspect Aft Cap, Fwd Step and Wing Walk of work to Current Step Inspect for

Foreign objects per OSI 024

220

Packaging

Packaging

Packaging

Memo

0.00

0.00

Identify and pack for shipping as per PPPD205-634-041

PPP Rev:

6/420

230

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

1 1 10 10/10/08 TX

**Ouality Control** 

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W/O:			W	ORK ORDER CHANG	iES					•
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#### **Picklist Print**

\* Monday, September 13, 2010 9:58:23 AM

Work Order ID: 61955

Parent Item:

D205-634-041

Parent Item Name:

Replacement Skidtube



**Start Date:** 9/13/2010

Required Date: 9/28/2010

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork EC

IPP Rev:P 07-07-09 SS Wearplates & Gaskets JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2580-1		Manufactured	No			110	Each	3.0000	1  { <b>       </b>	1			
205 Skidtube bent detail				Location	,	Local	04-	I C-4-		_	$\bigcirc$		

		<u>Locatio</u>		_	Loc Oty	Loc Code	<b>a</b>	
		LG	B6/86	)	2		0	10-9-14
			61191		1			
		ST046			I			
			59856		1			
Manufactured	No			140	Each	76.0000	1	1

Step (maching detail)

D2576-3

Location	Loc Oty	Loc Code
LG	76	
46661	28	
52215	48	

# BE 10-9-15

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W/O:			W	ORK ORDER CHANG	ES			•
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\*Monday, September 13, 2010 9:58:23 AM

Work Order ID: 61955 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube **Required Date: 9/28/2010** Start Date: 9/13/2010 Required Oty: 1.00 Start Otv: 1.00 D2579 Manufactured No 140 304.0000 20 Each 20 Crossbolt Spacer Location Loc Oty Loc Code LG 304 57052 5 57348 58433 2 59113 20 BE 10/09/15 1 11 10/04/28 22 60845 102 61199 169 D2855 Manufactured No 200 Each 72.0000 Cap Location Loc Qty Loc Code FP6 56613 ST026 71 50513 50770 28 51539 2 53791 40 AN3-5A Purchased No 200 Each 1.517.000 Bolt Location Loc Qty Loc Code ST350 1517 105057 517 115016 500 115371 500

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W/O:			W	ORK ORDER CHANG	ES				
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Work Order ID: 61955										
Parent Item: D205-634-041										
Parent Item Name: Replacement Skidtul	be	1 1081116 18	IB #1841 B&181 B111	):==:= =:: <b>:</b> ::::::::::::::::::::::::::::	1880 SAJM BERN 1180 (		Start Date:	9/13/2010	Required Date: 9/28	3/2010
							Start Qty:	1.00	Required Qty: 1.00	
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ALS7-1032-130 .	Purchased	No			200	Each	1,868.000 50	50		
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Monday, September 13, 2010 9:58:23 AM

Work Order ID: 61955 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube Start Date: 9/13/2010 Required Date: 9/28/2010 Start Oty: 1.00 Required Otv: 1.00 AN960C10L NAS1149C0332 Purchased Nο 200 155,0000 50 Each 50 10/04/28 washer Location Loc Otv Loc Code ST245 155 X 50 1115698 29 107534 54 109545 111548 72 D3566-13 Manufactured No 200 Each 19.0000 Gasket Location Loc Qty Loc Code FP012 19 59661 11 60209 D3566-5 Manufactured No 200 Each 20.0000 10/09/28 Gasket Location Loc Qty Loc Code FP 20 60869 20 D3566-1 Manufactured No 200 Each 30.0000 Gasket Location Loc Qty Loc Code FP015 30 57715 2 60202 10 18 61656

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\* Monday, September 13, 2010 9:58:23 AM

Work Order ID: 61955 Parent Item: D205-634-041 Replacement Skidtube Parent Item Name: Required Date: 9/28/2010 **Start Date:** 9/13/2010 Start Qty: 1.00 Required Qty: 1.00 D3564-11 Manufactured No 200 Each 12.0000 Ul 10/04/28 Wearshoe Location Loc Qty Loc Code FP019 12 12 60302 D3564-13 Manufactured No 200 Each 16.0000 85120101 PK Wearshoe Location Loc Qty Loc Code FP17 16 χŢ 59660 4 60862 12 D3564-9 200 14.0000 Manufactured No Each Wearshoe Location Loc Qty Loc Code FP 55334 FP019 13 60236 13

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Monday, September 13, 2010 9:58:23 AM

Work Order ID: 61955 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube **Required Date: 9/28/2010** Start Date: 9/13/2010 Start Oty: 1.00 Required Otv: 1.00 D3564-5 Manufactured No 200 20.0000 Each 25/20101/12 Wearshoe Location Loc Otv Loc Code FG 34806 FP19 10 57525 58709 61699 FP-19 9 60868 D2594-3 No Manufactured 200 Each 139 0000 16 O-Ring, 205 Skidtube Location Loc Qty Loc Code FP 139 55546 19 MB61762 12 58191 59358 108 D2594-1 200 Manufactured No Each 275.0000 16 Plug, 205 Skidtube Location Loc Oty Loc Code FP 183 42807 1361932 112 55002 71 FP14 92 58434 15 59110 77

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ENGINEER' G UNCONTROLLE CYMY SUBJECT TO 1/2 Port true

DESIG	#	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KED.//	APPROVED	DRAWING NO. REV. D
	M	#	D2580 SHEET 1 OF 3
DATE	•		TITLE SCALE
07.0	2.27		205 SKIDTUBE ASSEMBLY NTS
Α		96.09.16	NEW ISSUE
В		96.12.02	AS MANUFACTURED
С		98.08.26	REDRAWN, INCLUDED DEO 9094/9097
D		07.02.27	CHANGE TO SS WEARPLATES AND GASKETS, INCLUDE DEO 9124/9183

WOLL NO	19 4
10913	RELEASED

QTY	QTY	Part Number	Description		
-041	-045				
X	<u> </u>	D2580-041	SKIDTUBE ASSEMBLY		
	X	D2580-045	SKIDTUBE ASSEMBLY		
1	1	D2500-1-190	EXTRUSION		
1	1	D2576-3	STEP		
20	24	D2579	CROSS BOLT SPACER		
16	16	D2594-1	PLUG		
16	16	D2594-3	O-RING		
1	1	D2596	205 WEB		
1	1	D2855	AFT CAP		
1	1	D3564-5	WEARSHOE		
1	1	D3564-9	WEARSHOE		
1	1	D3564-11	WEARSHOE		
1	1	D3564-13	WEARSHOE		
2	2	D3566-1	GASKET		
1	1	D3566-5	GASKET		
1	1	D3566-13	GASKET		
50	50	ALS7-1032-130	INSERT		
'		or AKS7-1032-130			
		or AKS4-1032-130			
		or AELS-1032-130			
50	50	AN3C4A	BOLT		
2	2	AN3-5A	BOLT .		
50	50	AN960C10L	WASHER		
2	2	AN960JD10L	WASHER		

#### **GENERAL NOTES:**

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- ALL DIMENSIONS ARE IN INCHES
- INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-
- 6) WELDING TO BE DONE PER DART QSI 004.
- 7) FINISH:

SEE NOTES ON

PAGE 2 FOR D2580-041 AND

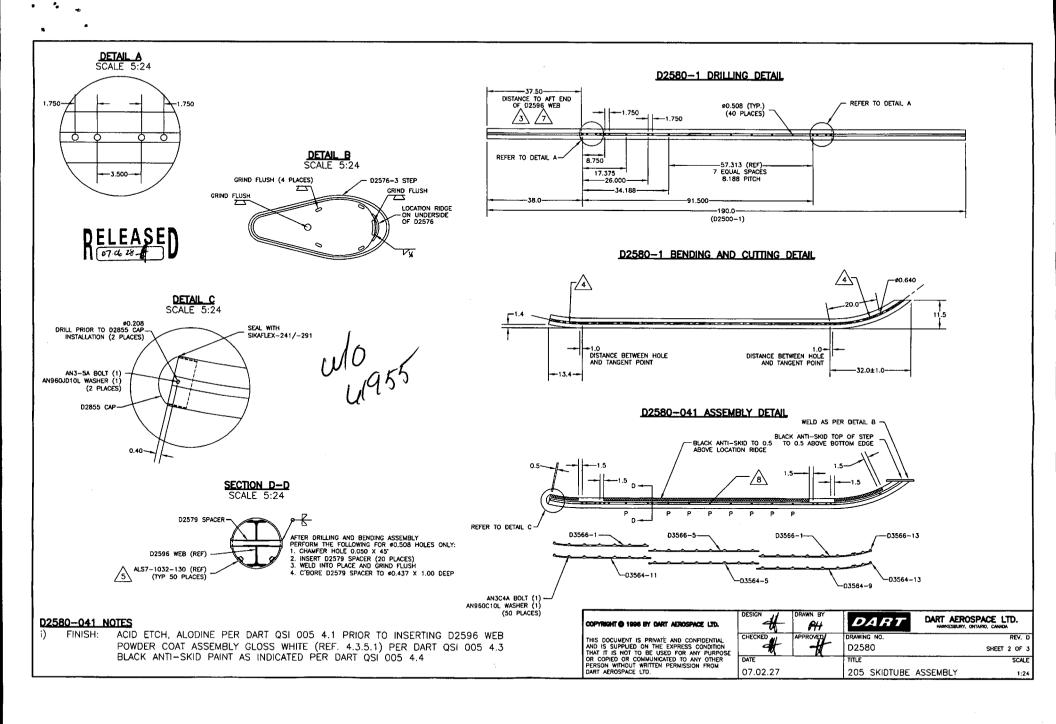
PAGE 3 FOR D2580-045

INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

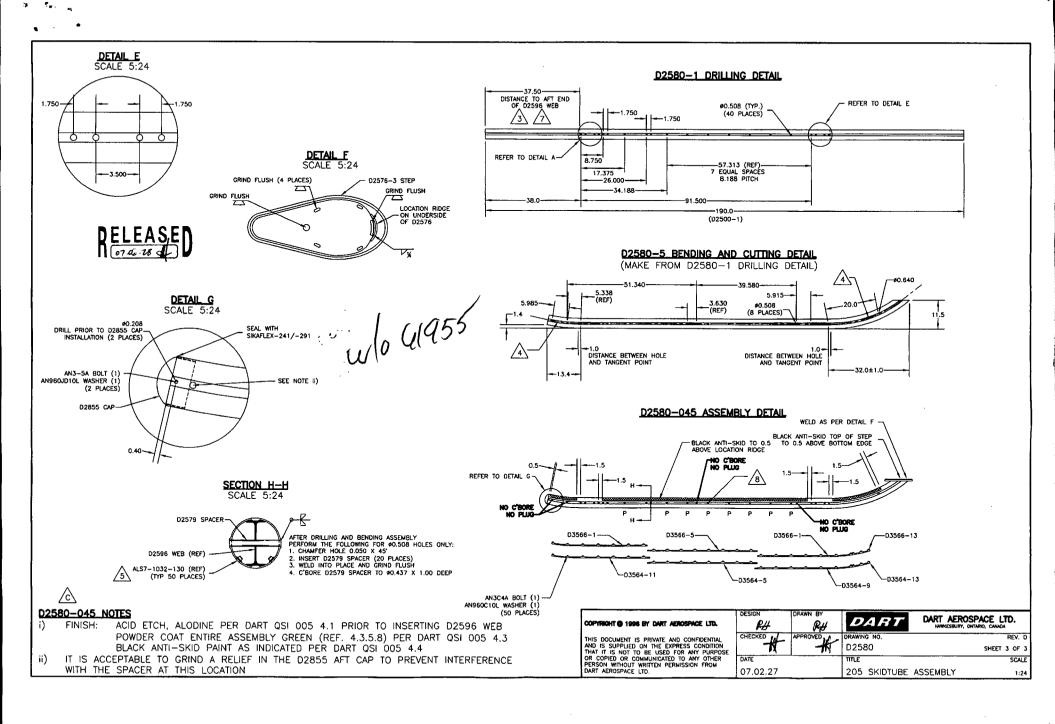
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		<del></del>							
W/O:			WO	RK ORDER CHANG	ES		· · · · · · · · · · · · · · · · · · ·		
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	٠.								
Part No		PAR #:	Fault Categ	jory:	_ NCR: Yes	No <b>DQ</b>	A:	Date: _	
	Re	esolution:	Disposition	l:	_ QA: N/C C	osed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NCF	₹)			
DATE	STEP	Description of NC		Corrective Action Secti			cation	Approval	Approval
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Sect	ion C	Chief Eng	QC Inspector
i									
1		1			i i	1		1	1



W/O:			W	ORK ORDER CHANGI	ES				, .* .
DATE STEP		PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						* * * * * * * * * * * * * * * * * * * *			
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No <b>DQ</b>	<b>4</b> :	Date:	
			Dispositio	QA: N/C Closed: Date:					
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCR	)			
DATE	STEP	Description of NC	Corrective Action Section B			Verification		Approval	Approval
DAIL	JILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section	on C	Chief Eng	QC Inspector
									:
									<u>.</u>



Dart Aerospace	e Ltd
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W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
<b>10</b> ,								

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
Resolution:		Disposition:	QA: N/C Closed:		Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B		Verification	Approval Chief Eng	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		Approval QC Inspector			
·											
		·									
	,										

NO.	236	
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# AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barclay Elliott
Job number: 6135名
Part number: 5205-634-041
Description: 205 skid tube
Welding Process: Tig[ Mig[ ]
Base materiel: Aluminium
Current: AC[ DC]

# TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[] fail[] pass[] fail[]
UNACCEPTABLE	
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]
Qualifier Soclaf Ellot	Date of Test Coupon 10.08.25  Date of Test Coupon 10.09.25

The above named individual is qualified in accordance with AWS D17.1.2001 to weld